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NOTICE OF ALLOWANCE AND FEE(S) DUE

30689

7590

05/29/2009

DEERE & COMPANY ONE JOHN DEERE PLACE MOLINE, IL 61265

EXAMINER					
DIACOU, ARI M					
ART UNIT	PAPER NUMBER				

3663 DATE MAILED: 05/29/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,788	10/30/2003	Shufeng Han	16569-US	8112

TITLE OF INVENTION: VEHICULAR GUIDANCE SYSTEM HAVING COMPENSATION FOR VARIATIONS IN GROUND ELEVATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/31/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificat	correspondence including the delay or directed other cions.	nerwise in Block 1, by (correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDI	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Fee	e(s) Transmittal. This	certif	icate cannot be used f	r domestic mailings of the or any other accompanying nt or formal drawing, must
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							(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	3	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/696,788	10/30/2003	•	Shufeng Han			16569-US	8112
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DIACOU		3663	701-023000 2. For printing on the	Total Country of the United			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. 			(1) the names of up t or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent att listed, no name will be	ively, de firm (having as a a agent) and the name orneys or agents. If n	membe	er a 2	
PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIG	ess an assignee is ident n in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NC	OT a substitute for filing ar (B) RESIDENCE: (CIT	patent. If an assigne assignment. Y and STATE OR CO	OUNT	RY)	ocument has been filed for
Please check the appropri	ate assignee category or	categories (will not be p	printed on the patent):	Individual 🖵 Co	porati	on or other private gro	oup entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			Hb. Payment of Fee(s): (Please A check is enclosed. Payment by credit can be a coverpayment, to Dep	rd. Form PTO-2038	is atta	ched.	,
a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	ıs. See 37 CFR 1.27.	☐ b. Applicant is no lo				
note: The Issue Fee and interest as shown by the I	e rubilication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademar	k Office.	the applicant; a regis	iered a	morney or agent; or th	ne assignee or other party in
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an application. Confident submitting the completed his form and/or suggesti	iality is governed by 35 I application form to the ons for reducing this bu	U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to th	8 1.14. This collection is exy depending upon the indi- he Chief Information Office	stimated to take 12 m vidual case. Any cor ser. U.S. Patent and T	inutes nment Tradem	to complete, including on the amount of tire ark Office, U.S. Depart	I by the USPTO to process) g gathering, preparing, and ne you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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DEERE & COMPANY			DIACOU	, ARI M	
ONE JOHN DEED			ART UNIT	PAPER NUMBER	
MOLINE, IL 6126	65		3663		
			DATE MAILED: 05/29/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 336 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 336 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/696,788	HAN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	ARI M. DIACOU	3663	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr IGHTS . This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due co	urse. THIS
1. This communication is responsive to <u>remarks filed 3-20-20</u>	<u>009</u> .		
2. \boxtimes The allowed claim(s) is/are <u>21-30 and 41-45</u> .			
 Acknowledgment is made of a claim for foreign priority una)	e been received. e been received in Applicat	ion No	n from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requi	rements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ack) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			te the
Attachment(s)	_		
1. Notice of References Cited (PTO-892)		Informal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), b./Mail Date	
3. Information Disclosure Statements (PTO/SB/08),		's Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	's Statement of Reasons for Allowa	ance	
or biological material	9. 🔲 Other	<u></u> .	
/Eric Bolda/ Primary Examiner, Art Unit 3663	/A. M. D./ Examiner, Art	Unit 3663	

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 21-30 and 41-45 are allowed.
- 2. Regarding claim 21, the prior art does not teach or make obvious the use of
 - each of the roll data and pitch data are separately estimated using i) a
 maximum slope of ground with respect to a reference point for each cell
 traversed by the vehicle corresponding to the particular location, and the
 maximum slope having a non-zero longitudinal slope component and a nonzero lateral slope component, and ii) an aspect angle between a direction of
 the maximum slope and an axis with which a direction of travel is coincident;

within the context of claim 21 taken as a whole.

Conclusion

3. The prior art which is cited but not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ari M. Diacou whose telephone number is (571) 272-5591. The examiner can normally be reached on Monday - Friday, 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on (571) 272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/696,788 Page 3

Art Unit: 3663

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/A. M. D./ Examiner, Art Unit 3663 28-May-09

/Eric Bolda/ Primary Examiner, Art Unit 3663